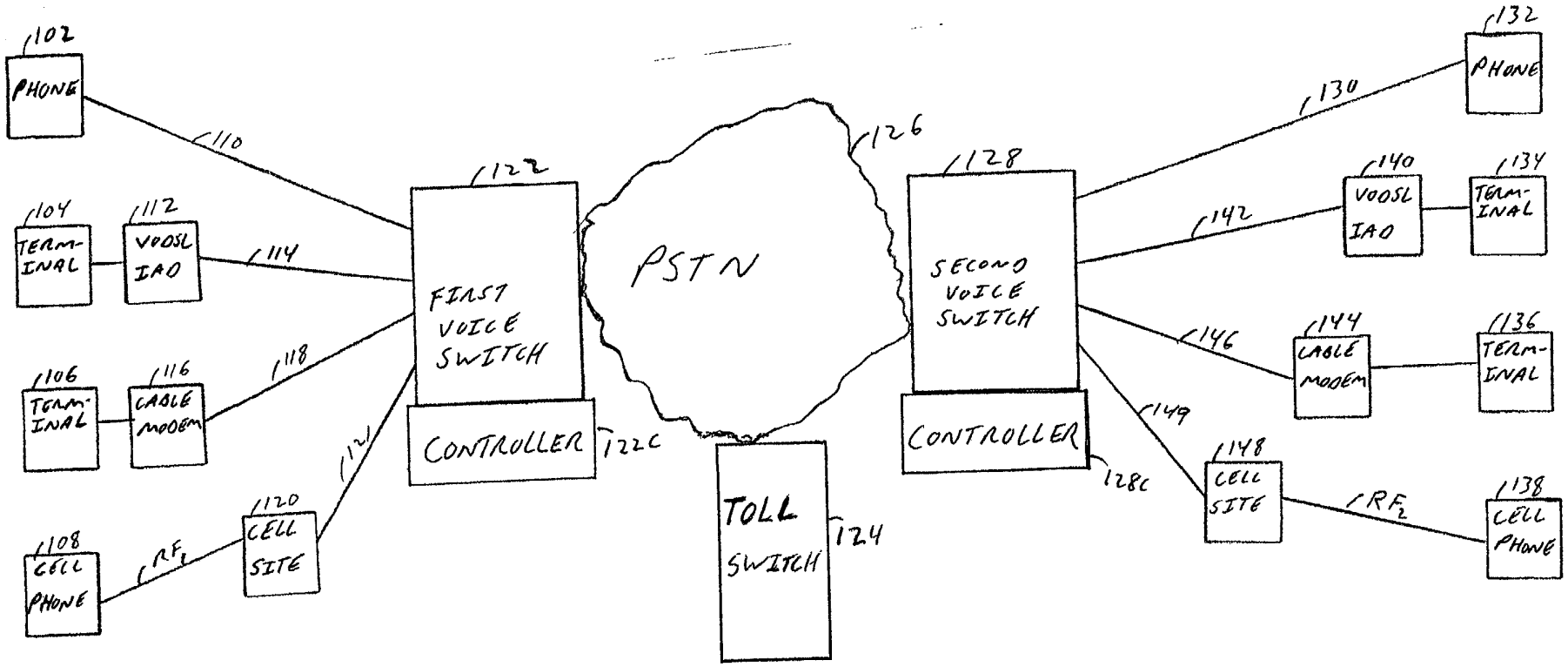
T0980h0" 7h872860



100

FIG. 1

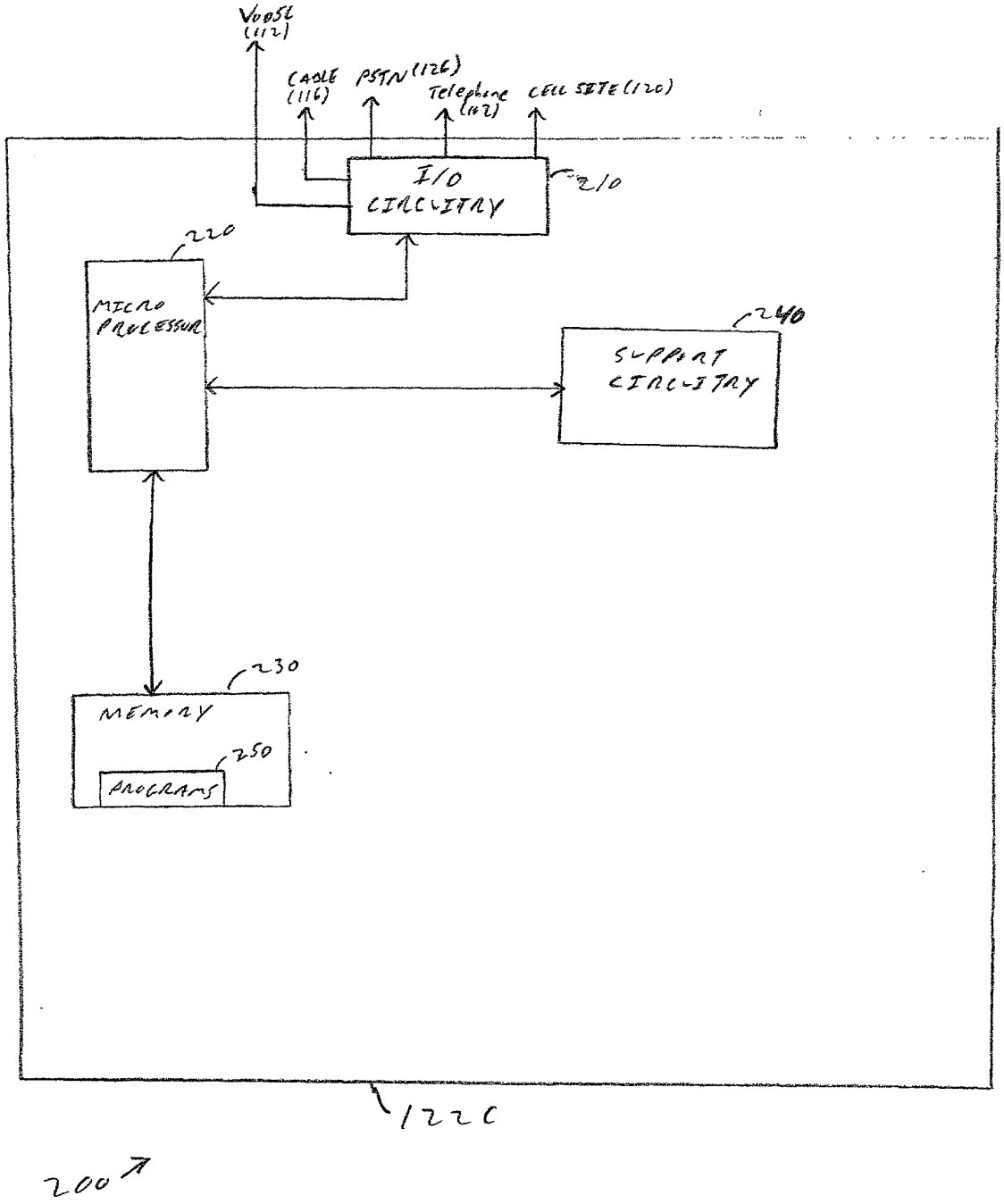
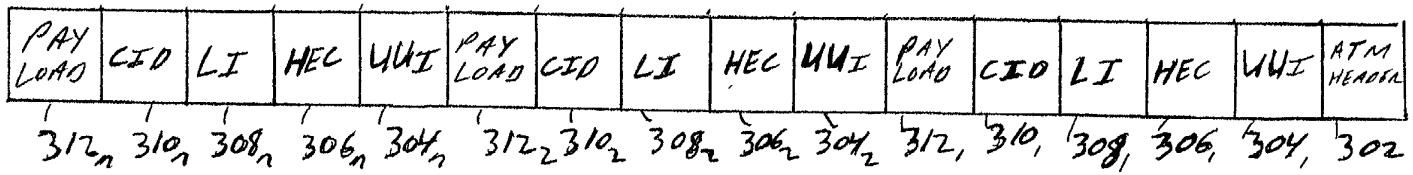

VOICE (112)
CABLE (116)
PSTN (126)
Telephone (127)
CELL SITE (120)
I/O CIRCUITRY
210
220
MICRO PROCESSOR
240
SUPPORT CIRCUITRY
230
MEMORY
250
PROGRAMS
122C
200

FIG. 2

TOSHIBA 4B22860



300

FIG. 3

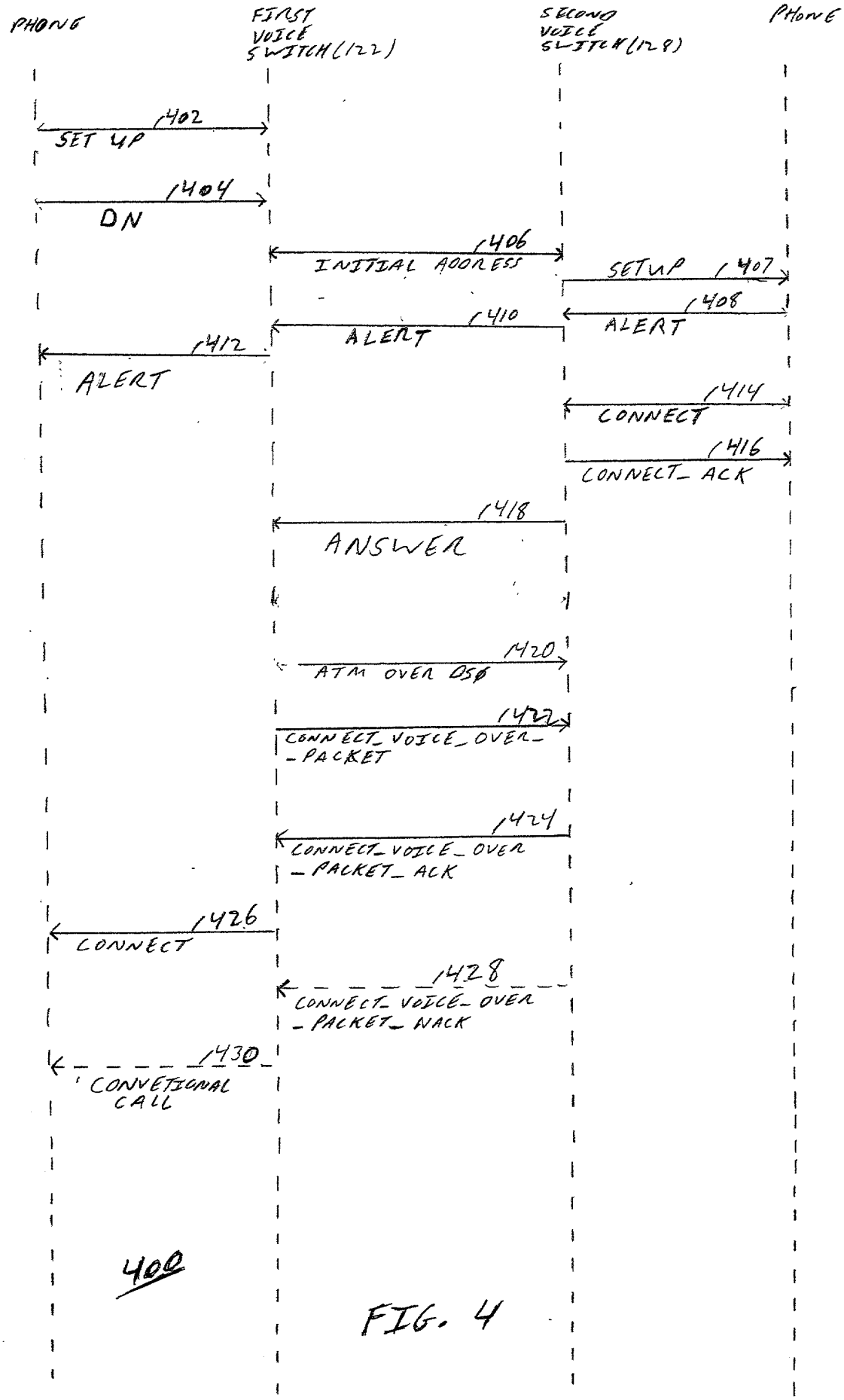
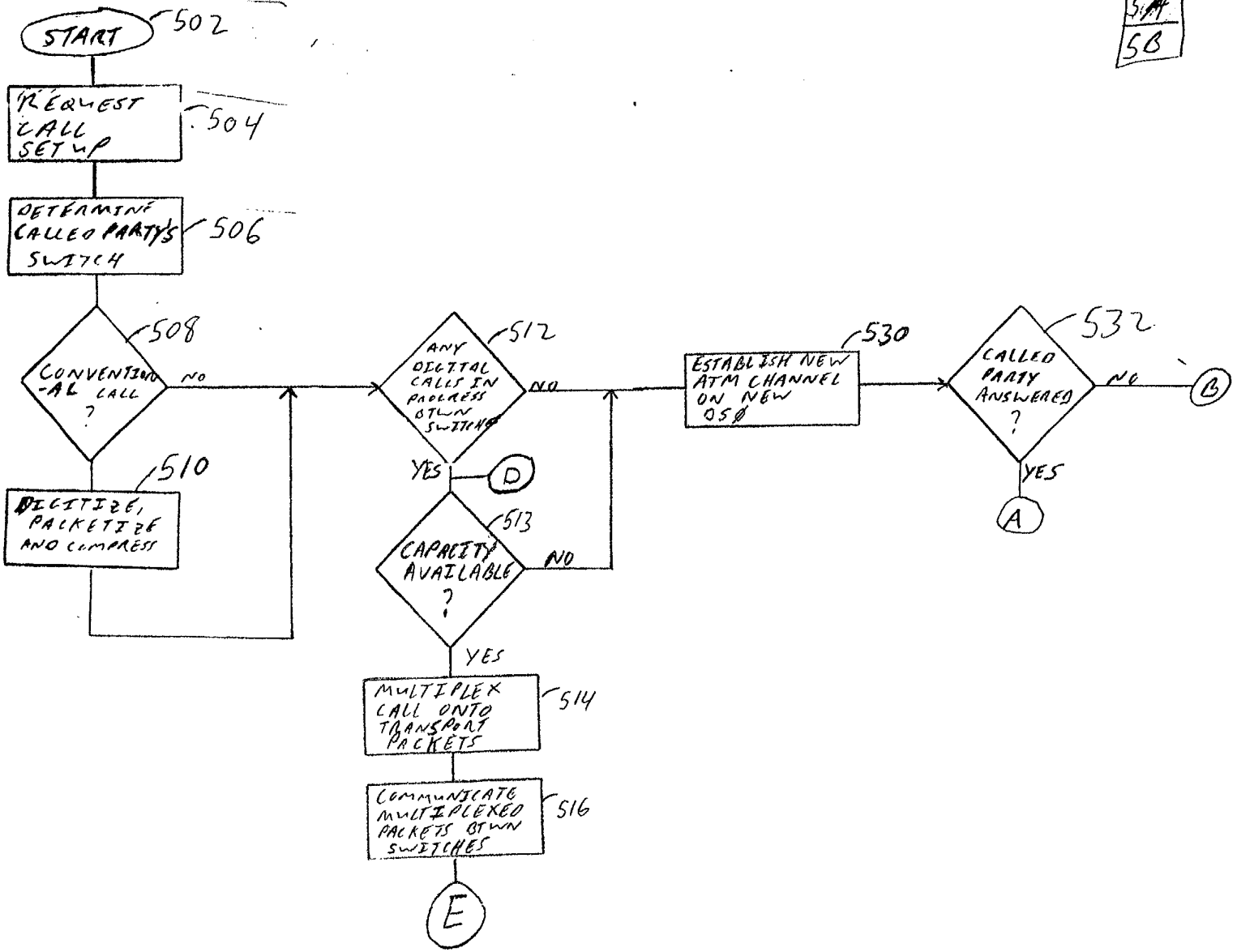

PHONE
FIRST VOICE SWITCH (122)
SECOND VOICE SWITCH (129)
PHONE
402
SET UP
404
DN
406
INITIAL ADDRESS
SETUP
407
408
ALERT
410
ALERT
412
ALERT
414
CONNECT
416
CONNECT_ACK
418
ANSWER
420
ATM OVER OSØ
422
CONNECT_VOICE_OVER_PACKET
424
CONNECT_VOICE_OVER_PACKET_ACK
426
CONNECT
428
CONNECT_VOICE_OVER_PACKET_NACK
430
CONVETIONAL CALL
400

FIG. 4


START
502
REQUEST CALL SET UP
504
DETERMINE CALLED PARTY'S SWITCH
506
CONVENTIONAL CALL ?
508
NO
DIGITIZE, PACKETIZE AND COMPRESS
510
ANY DIGITAL CALLS IN PROGRESS BTWN SWITCHES
512
NO
YES
D
CAPACITY AVAILABLE ?
513
NO
YES
MULTIPLEX CALL ONTO TRANSPORT PACKETS
514
COMMUNICATE MULTIPLEXED PACKETS BTWN SWITCHES
516
E
ESTABLISH NEW ATM CHANNEL ON NEW OSØ
530
CALLED PARTY ANSWERED ?
532
NO
B
YES
A

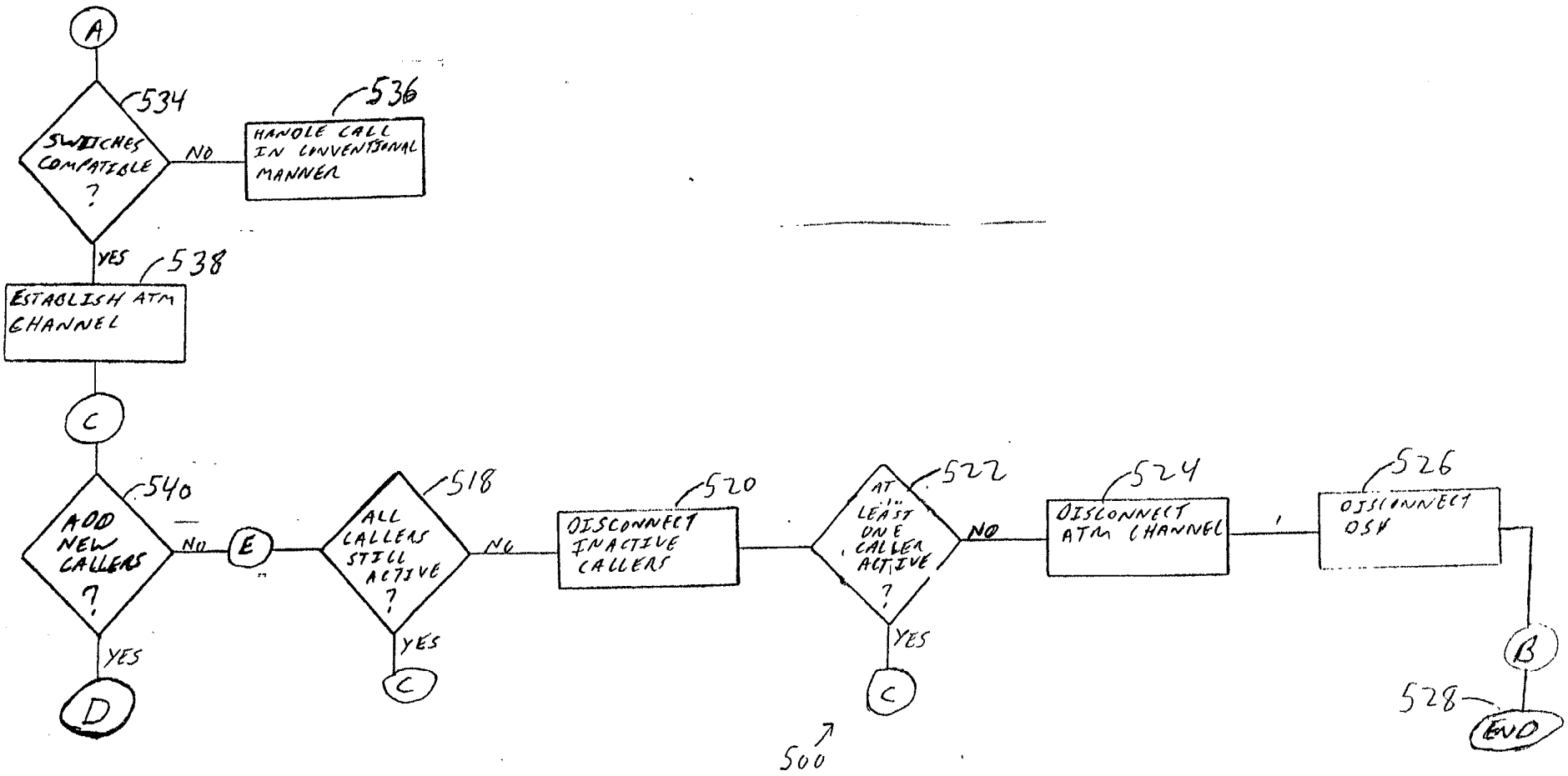

A
534
SWITCHES COMPATIBLE ?
NO
536
HANDLE CALL IN CONVENTIONAL MANNER
YES
538
ESTABLISH ATM CHANNEL
C
540
ADD NEW CALLERS ?
NO
E
518
ALL CALLERS STILL ACTIVE ?
NO
520
DISCONNECT INACTIVE CALLERS
522
AT LEAST ONE CALLER ACTIVE ?
NO
524
DISCONNECT ATM CHANNEL
526
DISCONNECT OSH
B
528
END
YES
D
YES
C
YES
C
500

FIG. 5B